

## PATENT ABSTRACTS OF JAPAN

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(21)Application number : 09-229313 (71)Applicant : HITACHI LTD

(22)Date of filing : 26.08.1997 (72)Inventor : OHIRA NAOIKI

ICHIKAWA YOSHIKI

OISHI SATOSHI

MAEDA SHINGO

OKADA MASAFUMI

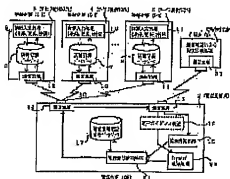
OKAMOTO KAZUHIKO

### (54) AREA INFORMATION SERVICE SYSTEM AND METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a user holding a portable telephone set with area information.

SOLUTION: Information providing sources C-1, C-2 and C-n are provided with service providing systems 3, 4 and 5 provided with shop information data bases 6, 7 and 8. A telephone company B is provided with an area information telephone number data base 17, a position detection processing part 19 and a key word detection processing part 20.



The user A holding the portable telephone set 1 requests information provision to the telephone company B through the telephone set 1 and the telephone company B detects the present position of the user in the position detection processing part 19 and finds the telephone number of the pertinent information providing source from the telephone number data base 17. The information providing source of the telephone number and the portable telephone set 1 are line-connected by the telephone company B. Thus, the user is provided with the information from the shop information data base of the information providing source.

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CLAIMS

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[Claim(s)]

[Claim 1] As opposed to a demand of an offer of information which passes this terminal equipment from a user with a terminal equipment, An area information service system which detects the user's current position or area automatically, finds out a corresponding information providing source of the area automatically, and told a user about a telephone number of this providing source via a terminal equipment.

[Claim 2] As opposed to a demand of an offer of information which passes this terminal equipment from a user with a terminal equipment, An area information service system which detects the user's current position or area automatically, finds out an applicable registration resource center of the area

automatically, performs a line connection of this providing source and the above-mentioned terminal equipment, and performs an offer of information to an information database of a resource center in access \*\*\*\* from the above-mentioned terminal equipment.

[Claim 3]An area information service system which finds out a corresponding information providing source of that area automatically to a demand of an offer of information which specifies an area which passes this terminal equipment from a user with a terminal equipment, and told a user about a telephone number of this providing source via a terminal equipment.

[Claim 4]As opposed to a demand of an offer of information which specifies an area which passes this terminal equipment from a user with a terminal equipment, An area information service system which finds out an applicable registration resource center of the area automatically, performs a line connection of this providing source and the above-mentioned terminal equipment, and performs an offer of information to an information database of a resource center in access \*\*\*\* from the above-mentioned terminal equipment.

[Claim 5]One area information service method of claims 1-4 which shall perform information with which the above-mentioned user is provided in a sound or a character from a terminal equipment.

[Claim 6]For every area information providing sources, such as a store and a company, give a provided information database, give a telecommunications company a telephone number database by telephone number of an area information providing source, and an information item, and in a telecommunications company. After pinpointing a user's current position automatically to a demand of an offer of information which leads a mobile phone machine user's telephone, A telephone number of an area information providing source corresponding to the current position and information item is searched from the above-mentioned telephone number database, An area information service method which shall perform automatically a line connection between an area information providing source and a user's mobile phone machine which are this telephone number, and shall provide a user with information from a provided information database of the area information

providing source concerned through this connected circuit.

[Claim 7] A telephone number database give a provided information database for every area information providing sources, such as a store and a company, and according to a telephone number of an area information providing source, and an information item to a telecommunications company, 1st means to detect a user's current telephone area automatically to a demand of a mobile phone machine user's offer of information, The 2nd means that carries out the detection decipherment of the request keyword of a mobile phone machine user's offer of information, From detected current telephone area and a decoded request keyword, give 3rd means to search a telephone number of an area information providing source from the above-mentioned telephone number database, and in a telecommunications company. The 1st means of the above detects a user's current telephone area to a demand of an offer of information which leads a mobile phone machine user's telephone, The 2nd means detects a request keyword contained in a demand of an offer of information, and the 3rd means is used from this current telephone area and request keyword that were detected, A corresponding telephone number of an area information providing source is searched from the above-mentioned telephone number database, An area information service method which shall perform automatically a line connection between an area information providing source and a user's mobile phone machine which are this telephone number, and shall provide a user with information from a provided information database of the area information providing source concerned through this connected circuit.

[Claim 8] Claim 6 which shall perform information with which the above-mentioned user is provided in a sound or a character from a mobile phone machine, or 7 area information service methods.

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## DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the area information service system and method of providing area information using a portable telephone system, a personal handy phone system (PHS), etc.

[0002]

[Description of the Prior Art] In JP, 9-54895, A, the information notification system which can tell a user about the currency information of a personal digital assistant is provided. In this case, the personal digital assistant which has a current position detection means transmits to a host, carries out information retrieval of that position information, and the information corresponding to a current position is told. In JP, 9-8917, A, the system which can provide a user with the address of PHS and the variety of information of the surrounding area is provided. As opposed to the center of the system after receiving and memorizing base station ID which a PHS base station sends in PHS, if base station ID remembered to be a search key which shows the information kind to demand is transmitted, The center holds various information in the management areas of all the base stations, including for example, shopping information, a traffic information, etc., in the database, and returns a user the information corresponding to a search key from the database.

[0003]

[Problem(s) to be Solved by the Invention] It is constituted in the Prior art by the database for providing position information with a personal digital assistant or a cellular-phone machine, and a cellular-phone machine and the user using a cellular-phone machine, and information. However, in drawing 11 of JP,9-54895,A, the 3rd person of the police station has joined this composition. This example carries out the offer of information of the position information on a cellular-phone machine to a police station via a communication host, when a disaster occurs.

[0004] If the user of a cellular-phone machine telephones the center for an offer of information even if he does not fully grasp his current position, this Prior art searches the information database in a center, and provides a user with search-results information.

[0005] However, the database put on the center, Must provide information individually, and If the database administrator of a center does not fully maintain, either, those who provide the database with information (for example, a hotel, a restaurant, etc.) an offer of information, There is a possibility that it may become impossible for the information on a database to become old or to provide sexual information real time instantly.

[0006] That is, those who the problem of a system has (a) cellular-phone machine conventionally [ this ], and use, (b) In spite of being realized in the center and host who manage a database, and three persons of those (for example, a hotel, a restaurant, etc.) who provide the (c) database with information, The ranges (namely, range which can respond instantly) connected on-line are a cellular-phone machine user and two persons of a database center. That is, it is three persons of (1) above being able to connect on-line, and being able to provide information required for a cellular-phone machine user immediately from an information provider as an ideal original gestalt. The extreme is a system by which an information provider can provide information required for a cellular-phone machine user without placing (2) database centers.

[0007] The personal digital assistant holder (user) of the cellular-phone machine which has come out to the street this invention, It is an area information service system which provides a high-value-added information

service by searching area information and carrying out the offer of information of the area information which wants to gather information to the cellular-phone machine holder and information use place (offer-of-information origin) which are users using terminal equipments, such as a cellular-phone machine.

[0008]

[Means for Solving the Problem]As opposed to a demand of an offer of information which passes this terminal equipment from a user to whom this invention has a terminal equipment, The user's current position or area is detected automatically, a corresponding information providing source of the area is found out automatically, and an area information service system which told a user about a telephone number of this providing source via a terminal equipment is indicated.

[0009]This invention receives a demand of an offer of information which passes this terminal equipment from a user with a terminal equipment, Detect the user's current position or area automatically, and an applicable registration resource center of the area is found out automatically, An area information service system which performs a line connection of this providing source and the above-mentioned terminal equipment, and performs an offer of information to an information database of a resource center in access \*\*\*\* from the above-mentioned terminal equipment is indicated.

[0010]This invention finds out a corresponding information providing source of that area automatically to a demand of an offer of information which specifies an area which passes this terminal equipment from a user with a terminal equipment, and indicates an area information service system which told a user about a telephone number of this providing source via a terminal equipment.

[0011]This invention receives a demand of an offer of information which specifies an area which passes this terminal equipment from a user with a terminal equipment, An area information service system which finds out an applicable registration resource center of the area automatically, performs a line connection of this providing source and the above-mentioned terminal equipment, and performs an offer of information to an information database of a resource center in access \*\*\*\* from the above-mentioned terminal

equipment is indicated.

[0012] This invention gives a provided information database for every area information providing sources, such as a store and a company, Give a telecommunications company a telephone number database by telephone number of an area information providing source, and an information item, and in a telecommunications company. After pinpointing a user's current position automatically to a demand of an offer of information which leads a mobile phone machine user's telephone, A telephone number of an area information providing source corresponding to the current position and information item is searched from the above-mentioned telephone number database, A line connection between an area information providing source and a user's mobile phone machine which are this telephone number is performed automatically, and an area information service method which shall provide a user with information from a provided information database of the area information providing source concerned is indicated through this connected circuit.

[0013] A telephone number database this invention gives a provided information database for every area information providing sources, such as a store and a company, and according to a telephone number of an area information providing source, and an information item to a telecommunications company, 1st means to detect a user's current telephone area automatically to a demand of a mobile phone machine user's offer of information, The 2nd means that carries out the detection decipherment of the request keyword of a mobile phone machine user's offer of information, From detected current telephone area and a decoded request keyword, give 3rd means to search a telephone number of an area information providing source from the above-mentioned telephone number database, and in a telecommunications company. The 1st means of the above detects a user's current telephone area to a demand of an offer of information which leads a mobile phone machine user's telephone, The 2nd means detects a request keyword contained in a demand of an offer of information, and the 3rd means is used from this current telephone area and request keyword that were detected, A corresponding telephone number of an area information providing source is searched from the above-mentioned telephone number database, .



Perform automatically a line connection between an area information providing source and a user's mobile phone machine which are this telephone number, and provide a user with information from a provided information database of the area information providing source concerned through this connected circuit. An area information service method made into a thing is indicated. \* NOTICES \*

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## DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] It is a figure showing the embodiment of the area information service system of this invention.

[Description of Notations]

- 1 Cellular-phone machine
- 2 Telephonic-communications system
- 3, 4, 5 service provision systems
- 6, 7, 8 store information data bases
- 9, 10, and 11 Information inputting treating part
- 12, 13, 14, 15, 16, and 31 Communication processing part
- 17 Area information telephone number database
- 18 Voice guidance part
- 19 Detect-positions treating part
- 20 Keyword detection processing part

## 21 Telephone-number-retrieval treating part

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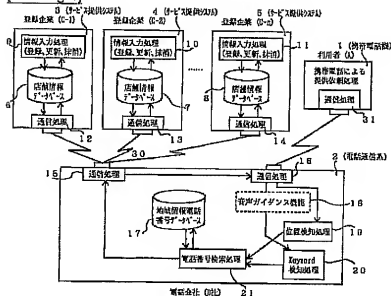
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## DRAWINGS

[Drawing 1]



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